

Appl. No. 10/710,507
Amdt. dated May 05, 2006
Reply to Office action of March 10, 2006

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A method for testing an optical disc drive control PCB using a reference optical pick-up head, the method comprising:
a step for determining a value by comparing an output of an optical disc drive control PCB under test to an output of a reference optical pick-up head laser; and
5 a step for comparing the value to a pre-determined value and accordingly determining whether the optical disc drive control PCB under test is acceptable :
a step for connecting the optical disc drive control PCB under test to the reference optical pick-up head; and
a step for disconnecting the optical disc drive control PCB under test from the
10 reference optical pick-up head when the test is complete.
2. (Original) The method of claim 1, further comprising a step for adjusting the output of the optical disc drive control PCB.
3. (Original) The method of claim 1, wherein the output of the reference optical pick-up head is from light emitted to a surface of an optical disc then reflected back to the
15 optical pick-up head.
4. (Original) The method of claim 1, further comprising generating a pass/fail indication accordingly to the determination of acceptability of the optical disc drive control PCB under test.
5. (Original) The method of claim 1, further comprising generating a graphical
20 characterization of the comparison of the measured value to the predetermined value.
6. (Canceled)
7. (Currently amended) The method of claim 6~~1~~, wherein all steps are repeated for a

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batch of optical disc drive control PCBs under test.

8. (Original) A method for testing an optical disc drive control PCB using a reference optical pick-up head, the method comprising:
connecting the optical disc drive control PCB under test to the reference optical pick-up head;
5 determining a value by comparing an output of an optical disc drive control PCB under test to an output of a reference optical pick-up head laser;
comparing the value to a predetermined value and accordingly determining whether the optical disc drive control PCB under test is acceptable; and
10 disconnecting the optical disc drive control PCB under test from the reference optical pick-up head.
9. (Original) The method of claim 8, further comprising a step for adjusting the output of the optical disc drive control PCB.
10. (Original) The method of claim 8, wherein the output of the reference optical pick-up head laser is measured using light emitted to a surface of an optical disc then reflected back to the reference optical pick-up head, or from light emitted by the laser directly via a polarizing beam splitter (PBS) of the reference optical pick-up head.
11. (Original) The method of claim 8, further comprising generating a pass/fail indication accordingly to the determination of acceptability of the optical disc drive control PCB under test.
12. (Original) The method of claim 8, further comprising generating a graphical characterization of the comparison of the measured value to the predetermined value.
13. (Original) The method of claim 8, wherein all steps are repeated for a batch of optical disc drive control PCBs under test.
14. (Currently Amended) An optical disc drive control PCB test assembly comprising:
a pick-up head for emitting and receiving laser light;
means for laser power monitoring;
25 means for presenting guiding instructions to assist in the adjustment of the optical disc

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drive control PCB under test; and

- means for electrically connecting an optical disc drive control PCB to the optical disc drive control PCB test assembly, wherein the optical disc drive control PCB test assembly may readily be used in the consecutive testing of a plurality of optical disc drive control PCBs.
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15. (Original) The device of claim 14, wherein the test assembly further comprises a means of presenting a pass/fail indication.
16. (Original) The device of claim 14, wherein the test assembly further comprising a means of presenting guiding instructions to assist in the adjustment of the optical disc
- 10 drive control PCB under test.
17. (Cancelled)